Training and Operation Manual

Waste Chute

Prepared for: Hickory Constructions

Building: 42-50 Albert Street
South Melbourne

Date of Chute Installation Completion: TBA

Date Practical Completion Achieved by Builder: TBA

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1 Waste Chutes

1.1 Description

The Smoothtubes® waste chutes are a technically superior, clean, quiet and environmentally conscious solution to waste disposal. Smoothtubes® are designed to manage waste in any multi-story establishment, allowing for quick and easy disposal of waste by occupants and simple removal of that waste by the caretaking staff. The chute is constructed of linear, low density polyethylene, which provides a non-porous surface that enhances the ability to keep the whole system clean. In addition, the chute itself has no sharp angles, meaning faster, less restricted flow from entry to collection point.

The modular design of Smoothtubes® eliminates the need for custom build sections and the innovative slip-join assembly significantly reduces installation time. At less than 15kg per section, Smoothtubes® are also light to handle while remaining highly impact resistant. The mounting points are isolated to eliminate noise and vibration.

Smoothtubes® loading throats for use by residents are moulded within the chute tube itself, creating a smooth flowing entry to reduce impact noise and minimise blockages. The hopper doors that allow access to the loading throats, are simple and easy to use. Residents simply turn the handle, open the door and hold, whilst placing bagged waste in the hopper. Residents then gently close the door; this will allow the bagged waste to fall down the chute. All waste should be contained in tied plastic bags; dimensions not exceeding a 350mm sided cube and weight not exceeding 3kg. Bottles, glass, cartons, cigarette butts, ignitions sources or fluids should not be disposed of via the waste chute.

1.2 Maintenance Schedule

The waste chute is a low maintenance waste disposal system. Maintenance is only required for movable parts associated with the hopper doors and discharge chute. For maximum performance and operating life of your new Smoothtubes® chute system, the following service schedules are recommended:

1.2.1 Summary of Maintenance Required

This is a checklist. For more details on how to perform the tasks below, see section 1.2.2 “Detailed Maintenance Description” below. If there is any doubt about the procedure, do not hesitate to call the Wastech National Service Hotline on 1300 665 870.

WEEKLY

- Hopper Door
  - Wipe door and frame with a clean damp cloth
- Discharge Chute
  - Clean the hinged door weekly and ensure that the unit closes freely when released

MONTHLY

- Hopper Door
  - Apply WD40 or CRC to the hinge
  - Vacuum out around the hinge and frame corners

AS NECESSARY (Visual smear and odour)

- Chute
  - Spray chute with water / mild soapy solution via either the hopper doors or the spray nozzle at the top of the chute (maximum 1 minute)

1.2.2 Detailed Maintenance Description

1.2.2.1 Chute

The body of the chute system consists of 5.0 mm thick LLDPE plastic. The chute pipes have smooth internal bore and socket joints to provide a clear, snag-free shaft. Due to the pipes durability they resist damage from falling objects. The LLDPE material is resistant to corrosion.

Cleaning of the internal surface of the chute can be performed to remove waste-smear visual impact or odour. This can be done by spraying the chute with water or a mild soapy solution via the hopper doors or the spray nozzle fitted at top of the chute. The spray nozzle at the top of the chute must only be operated for a maximum period of one (1) minute. Make suitable arrangements for disposal of the wash-water run-off via the discharge of the compactor / discharge chute.

1.2.2.2 Hopper Doors

The fire rated loading doors have a stainless steel finish and are self closing. The chute hopper doors require minimal servicing. Maintain as follows:

Vacuum out around the hinge and frame corners - monthly.

Apply WD40 or CRC to the hinge - monthly.

Wipe door and frame with a clean damp cloth - weekly.

1.2.2.3 Discharge Chute

The Discharge Chute for this building is Wastech's hinged door type. Clean the hinged door weekly and ensure that the unit closes freely when released. Contact Wastech if the door does not close. Ensure that waste is not disposed via the waste chute whilst cleaning/servicing the door. Tag and lock access to hopper door rooms.

1.2.2.4 Exhaust Fan

The waste chute system has an electrically operated exhaust fan mounted in the vent stack which creates a partial vacuum in the chute thereby drawing out fumes and odours.

The exhaust fan is rated for continuous-duty. The unit is supplied and installed by Wastech but is electrically wired by the builder. This fan is located on the roof of the building. A weatherproof cowl is fitted at the top of the vent stack.

1.2.2.5 Sprinklers

Sprinklers are fitted to the loading throats at alternating levels commencing at level 1. The sprinkler heads are recessed into the chute to prevent damage. Sprinklers are maintained by fire services.

1.2.2.6 Chute Damage and or Blockages

Contact Wastech for repair to chute damage or blockage clearing.

1.3 General Specifications

Smoothtubes®	
Internal Diameter	530mm nominal
Material Thickness	5mm +7.5mm
Mount Assembly	10mm LLDPE
Noise & Vibration Prevention	Isolation at every level under floor mounts with acoustically rated polyurethane sealant
Extraction Fan	200mm Galvanised steel ventilation fan and discharge cowl assembly – 240v Single Phase
Deflector Thickness	3 to 5mm
Floor Range	2600-3500mm (typical 3200mm)
Loading Throat (L x W)	550mm x 550mm
Hopper Door (L x W)	440mm x 440mm

2 Operation and Safety

2.1 Safe Operating Procedure

Before You Start

- Ensure all operators are trained in the safe and correct operation of the equipment.
- Carry out a visual inspection of the equipment to check everything appears normal as per checklists.
- The performance and long term reliability of this unit will be governed by how it is used.

2.1.1 Hopper Door Waste Disposal

1. Turn the handle and open hopper door
2. Open and hold open while placing the waste inside the door
3. Gently close the door and the rubbish bag will fall down the chute

WARNING:

- **All waste should be contained in tied plastic bags. Dimensions not to exceed a cube with 350mm sides. Weight not to exceed 3 Kg.**

- **Do not dispose bottles, glass, cartons, cigarette butts, ignitions sources or fluids via the chute.**

- **Disposal of large objects in chute may cause damage to chute and or blockages.**

- **Falling objects in chute - do not place hands or arms into the chute (beyond the door frame).**

2.1.2 Waste Collection Room

This room is typically accessed by the building caretaker only. To change over the collection bin:

1. Release the wire rope hook, manually closing the discharge-door to prevent objects continuing to fall down the chute
2. Allow the door to close
3. Change over the bin
4. Open the fire-door
5. Hook-in the wire rope holder

WARNING:

- **Always have a spare empty bin ready to perform a bin changeover so that the time for discharge chute closure is kept to a minimum.**

- **Falling objects in chute - do <u>not</u> place your hands or arms into the discharge chute (or beneath it). Be aware of possible glass shattering in the chute discharge area with corresponding debris scattering in the surroundings. Personnel to wear safety glasses, gloves, and neck to toe clothing whilst in the vicinity of the discharge chute.**

- **An over-filled bin is likely to hinder automatic closure of the fire-self closing - door (in case of a fire within the waste collection room, the door's self-closing feature would be disabled and the chute would transfer the fire up the building). Ensure that the bin is NOT overfilled by conducting prompt and routine bin clearing.**

2.1.3 Risk Assessment

Methodology

This Risk Assessment is based upon the Australian/New Zealand Standard 4360: 1999 Risk Management. The risk quantification and outcomes tables used in this information have been tailored to meet the needs and are provided in the accompanying attachment, however, whilst elements have been modified, the model used is consistent with the AS/NZS Standard.

Risk Assessment Conditions and Assumptions:

- The plant is only put to use as specified by the designer, manufacturer and supplier of it and in accordance with the plant's safe operation procedure;
- The plant is not altered in any way;
- That adequate information, training and instruction is provided, to ensure that the plant is installed, maintained, used, and mounted in a healthy and safe manner, having regard for state legislation and the relevant standards; and
- That site management and waste disposal contractor develop and implement safe working procedures for the plant's handling, transport, and type of waste loaded into the plant.
- All maintenance to be conducted by approved personnel. Contact Wastech Engineering for any maintenance matter as follows:

Service Department

Wastech Engineering Pty Ltd
Ph (03) 8787 1600
Fx (03) 8787 1650

Compiled by:		**Models:** Smoothtubes® Chute System	**Date:**		
Reference Number	**The Risk: What can happen? How can it happen?**	**Existing Risk Control Measures**	**The Consequences of an Event Happening (rating)**		**Initial Risk Level (rating)**
			Consequence	**Likelihood**	
1	Physical Injury - Objects falling on maintenance staff when changing bins	Proper training of staff in safe operating procedures Interlocked hopper door. Hopper door won't open if receiving bin isn't in position.	Catastrophic (5)	Rare (E)	High
2	Physical Injury – Hopper door closing on staff/residents	Proper training of residents/staff in safe operating procedures	Minor (2)	Rare (E)	Low
3	Equipment Damage – Disposal of waste, bottles, glass, cartons, cigarette butts, ignitions sources or fluids	Proper training of residents/staff in safe operating procedures	Catastrophic (5)	Rare (E)	High
4					
5					
6					
7					
8					
9					
10					

Compiled by:		Model: Smoothtubes® Chute System					Date:	
			Revised Risk Rating (after treatment)					
Reference Number	Possible Treatment Options	Recommended Options	Consequence	Likelihood	Risk Level	Responsibility for Implementation of Option	Timetable for Implementation	How Will the Risk & Treatment be Monitored
1	Place a do not use sign on the hopper door prior to bin removal	All	Insignificant (1)	Rare (E)	Low	Site Operator & Site Supervisor	On-going procedure	Quality system and supervision
2	Make operators aware of hazard.	All	Insignificant (1)	Rare (E)	Low	Site Operator & Site Supervisor	On-going procedure	Quality system and supervision
3	Type of waste to be controlled by site management and waste disposal contractor	All	Insignificant (1)	Rare (E)	Low	Site Operator & Site Supervisor	On-going procedure	Quality system and supervision
4								
5								
6								
7								
8								
9								

Table 1 - Qualitative Measures of Consequence or Impact

Quantification Rating/Level	Descriptor	Example detail description
1	Insignificant	No injuries, low financial cost
2	Minor	First aid injuries or illnesses only, on-site release immediately contained, medium financial loss
3	Moderate	Medical treatment required, lost time injury or illness or temporary reversible illness with limited period of disability, on-site release contained with outside assistance, high financial loss.
4	Major	Extensive injuries – permanent partial disability or severe lost time injuries or illnesses, loss of production capability, off-site release with no detrimental effects, major financial loss.
5	Catastrophic	Death, or irreversible severe disability or impairment, toxic release off-site with detrimental effect, huge financial loss.

Table 2 - Qualitative Measures of Likelihood

Quantification Rating/Level	Descriptor	Example detail description
A	Almost certain	Is expected to occur in most circumstances
B	Likely	Will probably occur in most circumstances
C	Possible	Might occur at some time
D	Unlikely	Could occur at some time
E	Rare	May occur only in exceptional circumstances

Table 3 - Matrix

Likelihood	Consequences				
	Insignificant (1)	Minor (2)	Moderate (3)	Major (4)	Catastrophic (5)
Almost Certain (A)	H	H	E	E	E
Likely (B)	M	H	H	E	E
Possible (C)	L	M	H	E	E
Unlikely (D)	L	L	M	H	E
Rare (E)	L	L	M	H	H

Legend:

E. Extreme Risk, immediate action required

H. High Risk, senior management attention needed

M. Moderate Risk, management responsibility must be specified

L. Low Risk, manage by routine procedures

Note: The matrix tables, categories (classifications), actions etc are indicative only, and may change from site/organisation to site/organisation and should not be read or interpreted as being definitive.

2.2 Associated Risks

- A chute, if misused has the potential to cause considerable harm to an individual, resulting in possible death.
- Safety Guidelines and devices have been developed to ensure this does not occur.
- You should follow the safe working procedures at all times. The equipment has been designed and constructed to meet Australian Safety Guidelines. If a malfunction is identified, you should isolate the equipment and notify your supervisor immediately.
- Under NO circumstances should you over-ride a safety device.
- Under NO circumstances should you enter the hopper door / chute
- You should not attempt to carryout repairs or modification to the equipment.
- You should ensure you stay clear of all moving components.
- A Wastech document titled OH&S Risk Assessment contains risk register and risk treatment information. The operator must understand the OH&S Risk Assessment document.

2.2.1 Safe Operation

- ✓ See Detailed Safe Operating Procedure placard (attached)
- ✓ Every Trainee should receive their own personal copy of this document.
- ✓ Have the trainee perform the Safe Operation Techniques

2.2.2 Inspection & Report

- 🕮 The following ‘Inspection Report’ has been developed to provide clients and their safety representatives, with an audit tool. This form can be used to carryout inspection every four to eight weeks depending on frequency of use. This should be filed in your safety records.
- 🕮 If the chute suffers serious damage or becomes mechanically unsound you should isolate the chute and contact Wastech g IMMEDIATELY to arrange an inspection of the chute.

2.3 Inspection Report

Date:	**Client Name:**
Contact Name:	**Contact Phone:**
Client Address:	

Inspection Required	***OK***	***Work Required***
Check operation of all loading doors		
Check door handle operation		
Clean all door hinges		
Check door mountings		
Clean external and internal surfaces of doors (excludes chute)		
Lubricate all door hinges and springs		
Test all springs and struts if applicable		
Check operation of discharge fire door (where applicable)		
Check discharge fire door fusible link (where applicable) Inspect all chute throat sections below loading doors for damage		
Inspect all chute throat sections below loading doors for damage		
Lubricate all pulleys and hinges of discharge fire door (where applicable)		
Inspect all loading doors and discharge deflector for general cleanliness		

Comments:	
Inspection Team **Unit Number:** **(if known)**	
Supervisor/Manager Signature:	***Inspection Date:***

2.4 Warning/Isolation Tags

In the case of malfunction the follow steps should be taken to ensure no one is injured.

- ✓ Prevent access to the chute.
- ✓ Place a suitable lock-out tag on chute doors

- ✓ **DO NOT** attempt to repair the chute, this will be done by a qualified trades person trained in the specifications and recommendations for the repair and maintenance of the chute.
- ✓ **DO NOT** attempt to override warning devices
- ✓ **DO NOT** attempt to re-commission the chute until clearance is given by a Wastech Engineering qualified technician
- ✓ After repair is complete the Wastech technician will remove the warning tag and re-commission chute

2.5 Wastech Responsibilities

- Design/Manufacture or supply equipment that is free of any design hazards and associated risks & complies with all Australian & WorkCover standards.

- To train site management and operator on the risks involving equipment hazards and safe operation procedures.

To ensure that:

- Hazard identification, risk assessment and control of risk associated with the design of the plant are done before the plant leaves our control.

- Plant Manufacture and Maintenance (if carried out by us) records are kept and maintained ready for inspection for 10 years.

- We eliminate or reduce any risk arising from use of the plant.

- We keep a record of all published technical standards, including parts of a published technical standard, used to manufacture the plant and make the record available for inspection as required.

- We obtain design information required to be provided to us.

- We provide information and training on the use of the chute to those for whom the chute is provided.

2.6 Clients Responsibilities

- To take regard to the information supplied by the manufacturer of the chute.
- To advise the supplier, in writing, of any design hazards and associated risks that may be identified.
- To eliminate or reduce risks arising from the improper use of the equipment.
- To obtain from the supplier revised information on plant once any overlooked hazards have been addressed or otherwise written advice that the supplier believes it is not necessary to revise the information originally supplied by them.

To ensure that:

- Work associated with the chute is done as it was intended by the supplier.
- Hazard identification, risk assessment and control of risk associated with the design of the chute is done when the plant is in your control.
- Regular 8 weekly inspections are carried out.
- You delay use until the supplier gives you revised information or written instructions or risks are eliminated or reduced.
- You assist in eliminating or reducing any risk arising from use of the chute
- You keep a record of all published information, used to safely operate the chute and make the record available for reference as required.
- You obtain operation information required to be provided to you.
- You provide information and training as detailed in this package including the acknowledgement, on the chute to those who are likely to, at any time use it.
- No person operates the chute until they have been trained and are competent in the procedures and responsibilities as set out by the supplier.

2.7 Employees/Users Responsibilities

You are to ensure that

- You follow all operation procedures as set down by the supplier.
- You do not tamper with or misuse the chute in any way.
- You isolate the chute and ensure your supervisor is notified immediately if repairs are required.
- You do not attempt to carry out any repairs or maintenance on the chute for any reason.
- You participate in training and information sessions related to the use of the chute.
- You do not attempt to operate the chute without prior training in the safe operation of the chute.
- You do not attempt to operate a chute that is isolated.
- You do not over ride any safety device that is fitted to the chute.

2.8 Acknowledgement

The client should maintain a copy of this acknowledgement with the original being forwarded onto Wastech.

I _____on behalf of _____

on commissioning of Wastech Waste Chute type _____

Acknowledge receipt of: *Please Tick*

❒ Training in the operation of the above Chute System

❒ An Operation Manual for the Safe use of the Chute System

I accept responsibility as detailed in this package and will ensure the appropriate training of ALL Employees and Contractors takes place before these personnel are permitted to operate the Equipment

I will ensure through appropriate monitoring techniques that operation of the above equipment will be carried out within the guidelines specified by Wastech

I agree to have contact made with Wastech Engineering immediately should any fault or damage be reported on the Equipment

I understand that only a preferred Wastech Contractor or Employee is able to carryout repairs or maintenance on the Equipment

Clients Representative – Employer

Signature _____ Position _____ Date _____

Wastech Representative

Signature _____ Position _____ Date _____

2.9 Trainee Acknowledgement

By placing my name and signature below I agree to carry out operations with the Wastech Equipment as detailed in the Operations manual supplied to me.

I have been given a copy of my responsibilities and the hazards associated with this equipment have been identified to me

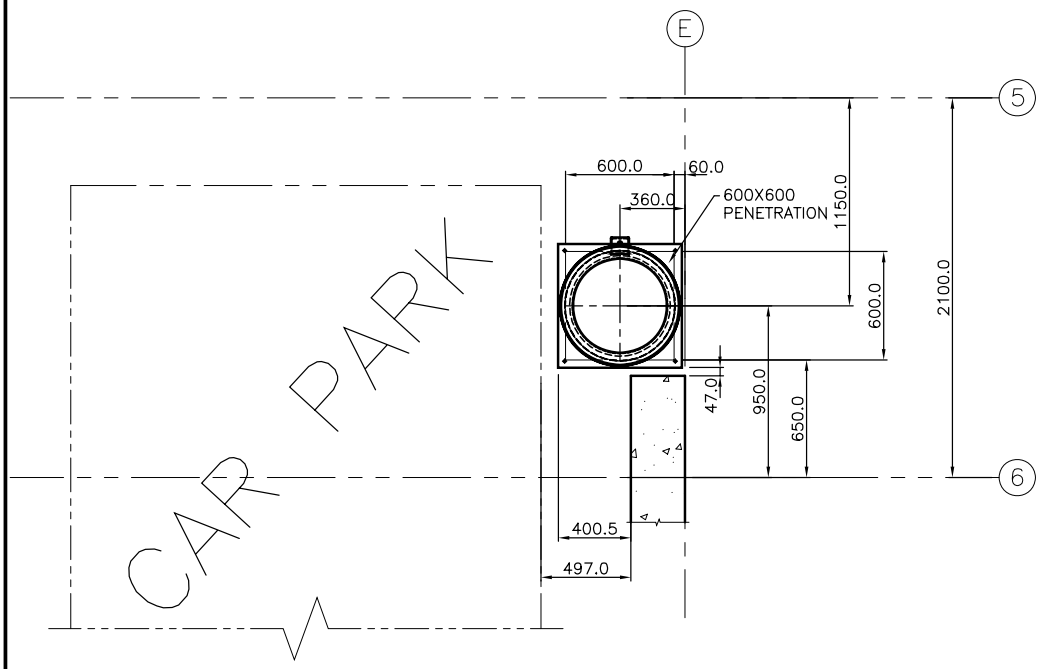
I understand that I am not permitted to carry out repairs or attempt to make any alterations to the equipment located at _____

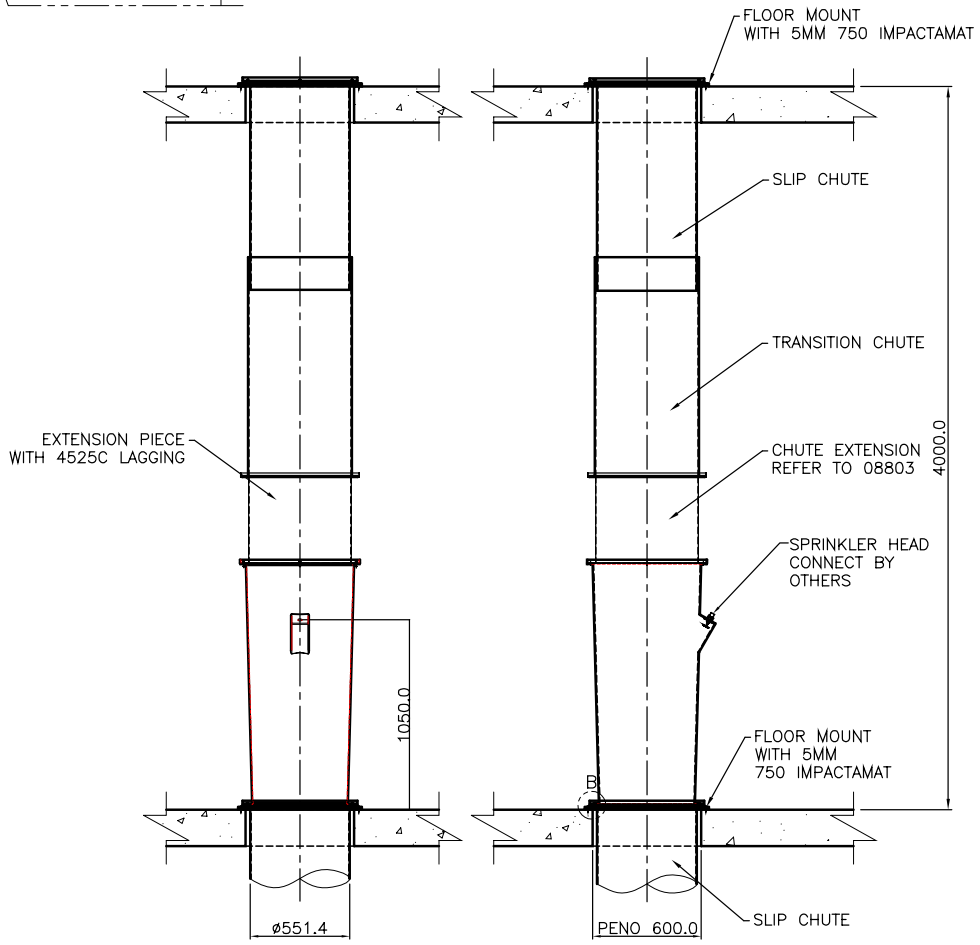
Name	***Position***	***Signature***	***Date***

3 Drawing Register

The drawings listed below are enclosed in the following pages

- GROUND LEVEL ASSY PCT-01-10619
- LEVELS GROUND-8 ASSY PCT-01-10163
- LEVELS 9-29 ASSY PCT-01-10614
- REFUSE ROOM PCT-01-10618
- CHUTE GA LEVELS LOWER G-6 PCT-01-10617-3
- CHUTE GA LEVELS 7-9 PCT-01-10616_REV3
- CHUTE GA LEVELS 10-ROOF PCT-01-10617-1





NOTE:

WALLS MUST BE FORMED ACCORDING TO THIS DRAWING.
FIRE SPRINKLER HEAD CONNECTED BY OTHERS.
ALL INSTALLATION PROCEDURES SAME AS LOADING FLOOR
DETAIL B REFER TO PCT-01-07963B (USE FOR WASTECH INSTALLER)

No:	DATE	REVISION	INT.

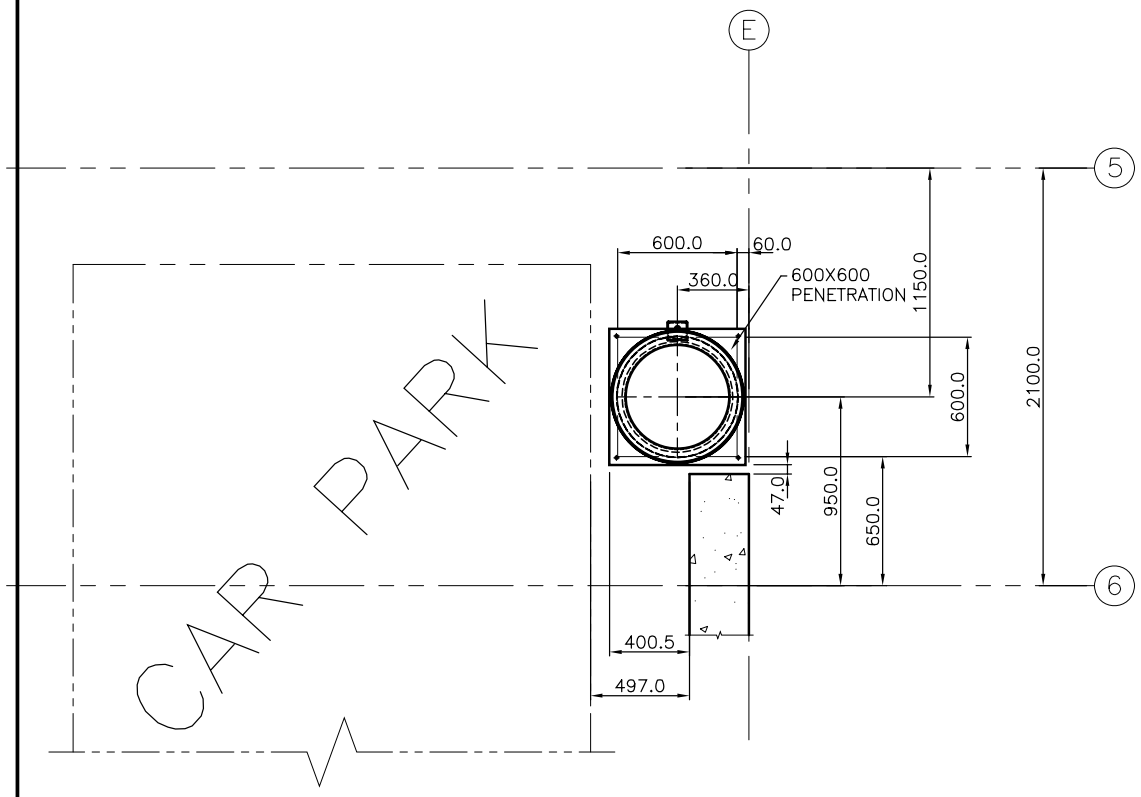
WASTECH ENGINEERING
SPECIALISING IN: DESIGN, MANUFACTURE AND SERVICE OF WASTE DISPOSAL AND RECYCLING EQUIPMENT
33 WEDGEWOOD ROAD, HALLAM, VIC. 3803 PHONE (03) 87871600 FAX (03) 87871650; (03) 87871670

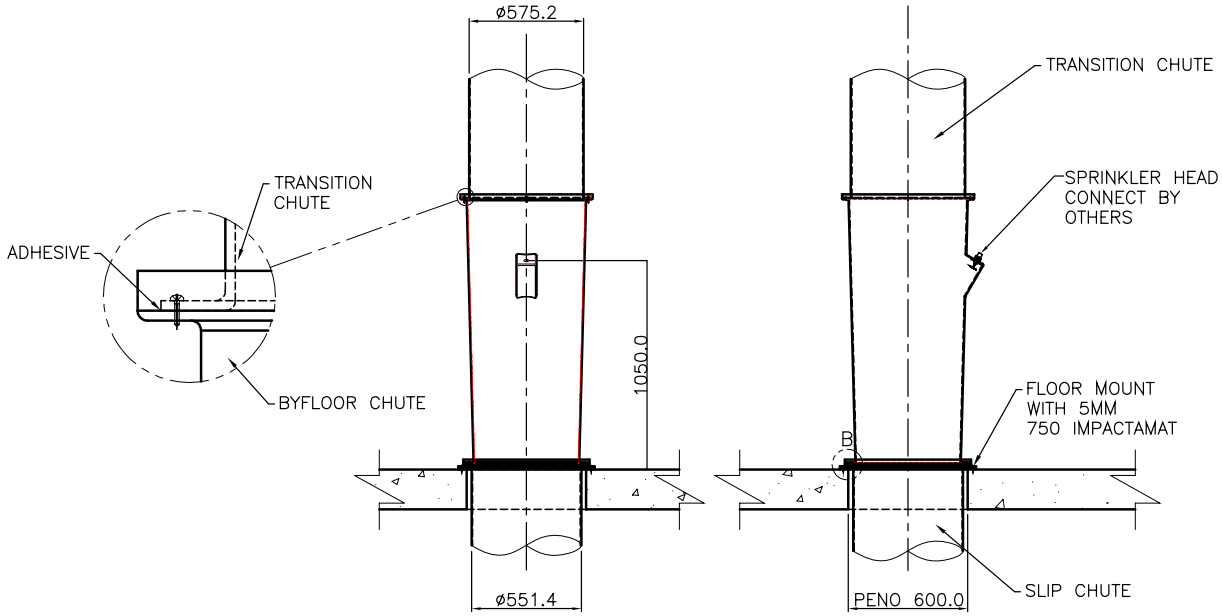
MATERIAL ---
QTY: ---

ALL DIMENSIONS IN MILLIMETRES U.O.N.
DEBURR ALL EDGES

The details and design shown on this drawing are the property of WASTECH ENGINEERING PTY. LTD. and as such are not to be copied or reproduced without written approval of WASTECH ENGINEERING PTY. LTD.

DRN A.H.	TITLE GROUND FLOOR CHUTE ASSY 50 ALBERT ROAD – HICKORY #242300001		
CKD S.F.			
APP ---	SCALE D.N.S	CAD FILE NAME PCT-01-10619	REV. 0
DATE 16-08-2011	VIEWS ---		





NOTE:

WALLS MUST BE FORMED ACCORDING TO THIS DRAWING.
FIRE SPRINKLER HEAD CONNECTED BY OTHERS.
ALL INSTALLATION PROCEDURES SAME AS LOADING FLOOR
DETAIL B REFER TO PCT-01-07963B (USE FOR WASTECH INSTALLER)

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33 WEDGEWOOD ROAD, HALLAM, VIC. 3803 PHONE (03) 87871600 FAX (03) 87871650; (03) 87871670

MATERIAL ---
QTY: ---

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DEBURR ALL EDGES

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DRN A.H.	TITLE LEVELS GROUND-8 CHUTE ASSY 50 ALBERT ROAD – HICKORY #242300001		
CKD S.F.			
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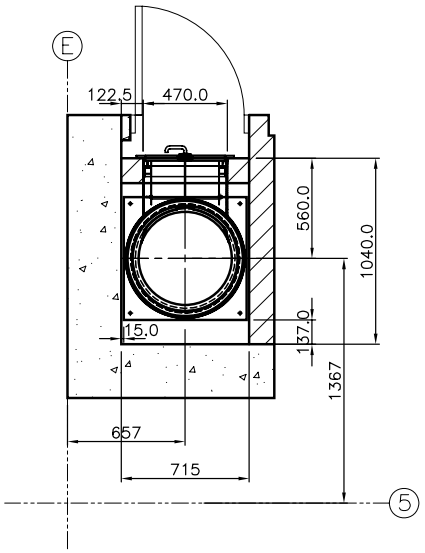
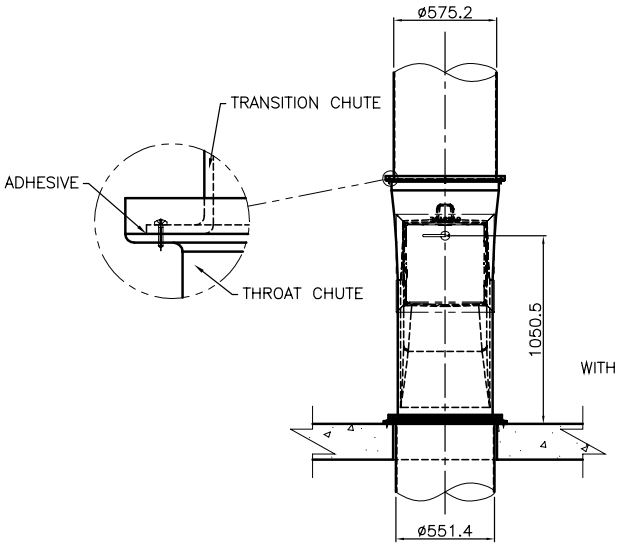
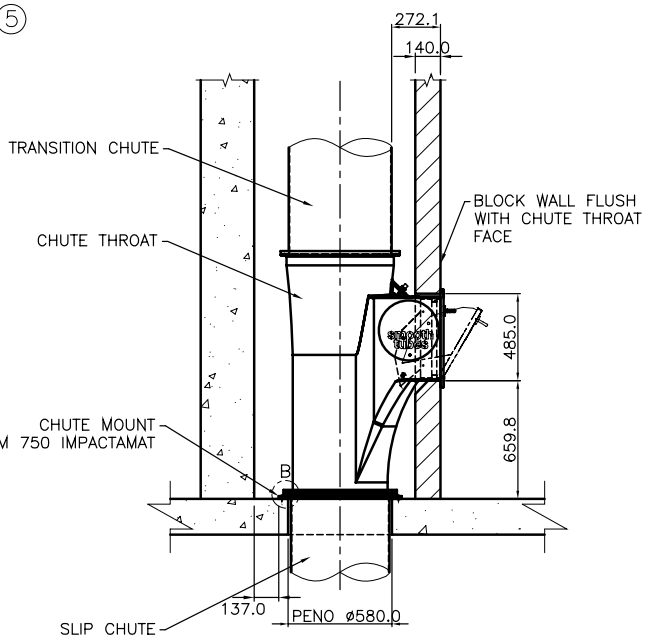
DATE 16-08-2011	VIEWS ---		







NOTE:

WALLS MUST BE FORMED ACCORDING TO THIS DRAWING.
FINISHED WALL FACE MUST BE FLUSH WITH CHUTE THROAT.
PENETRATION FOR CHUTE DOOR MUST BE AS PER THIS DRAWING.
WASTECH CANNOT MODIFY THE CHUTE THROAT TO SUIT INCORRECT PLACEMENT OF SURROUNDING WALL.
DETAIL B REFER TO CT-01-07963B (FOR WASTECH INSTALLER)

No:	DATE	REVISION	INT.

WASTECH ENGINEERING

SPECIALISING IN: DESIGN, MANUFACTURE AND SERVICE OF WASTE DISPOSAL AND RECYCLING EQUIPMENT

33 WEDGEWOOD ROAD, HALLAM, VIC. 3803 PHONE (03) 87871600 FAX (03) 87871650; (03) 87871670

MATERIAL ---

QTY: ---

ALL DIMENSIONS IN MILLIMETRES U.O.N. DEBURR ALL EDGES

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DRN A.H.	TITLE	LEVELS 9-29 ASSY	
CKD S.F.		50 ALBERT ROAD - HICKORY #242300001	
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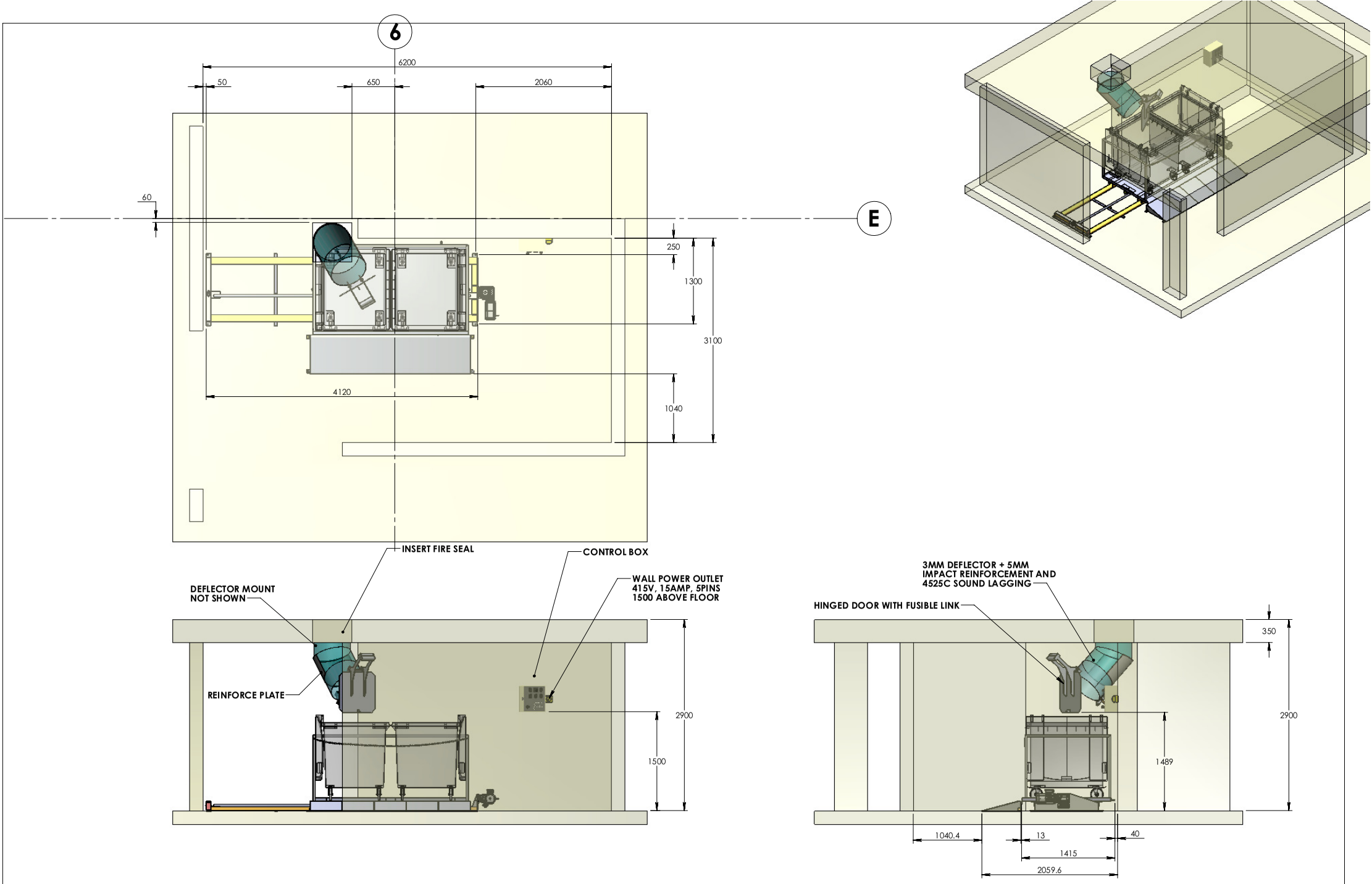
DATE 16-08-2011	VIEWS ---		



TOLERANCES UNLESS OTHERWISE SPECIFIED:
UP TO 10 ± 0.25
OVER 10 UP TO 100 ± 0.5
OVER 100 ± 1
ALL ANGLES ± 1°

Property of Wastech Engineering PTY. LTD.
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WASTECH ENGINEERING
33 Wedgewood Rd,
Hallam, Victoria, Aust, 3803
Ph: +61 3 8787 1600
Fax: +61 3 8787 1670

DRAFTING STANDARD AS1100 - 1992

MATERIAL: A.S.
A.S.

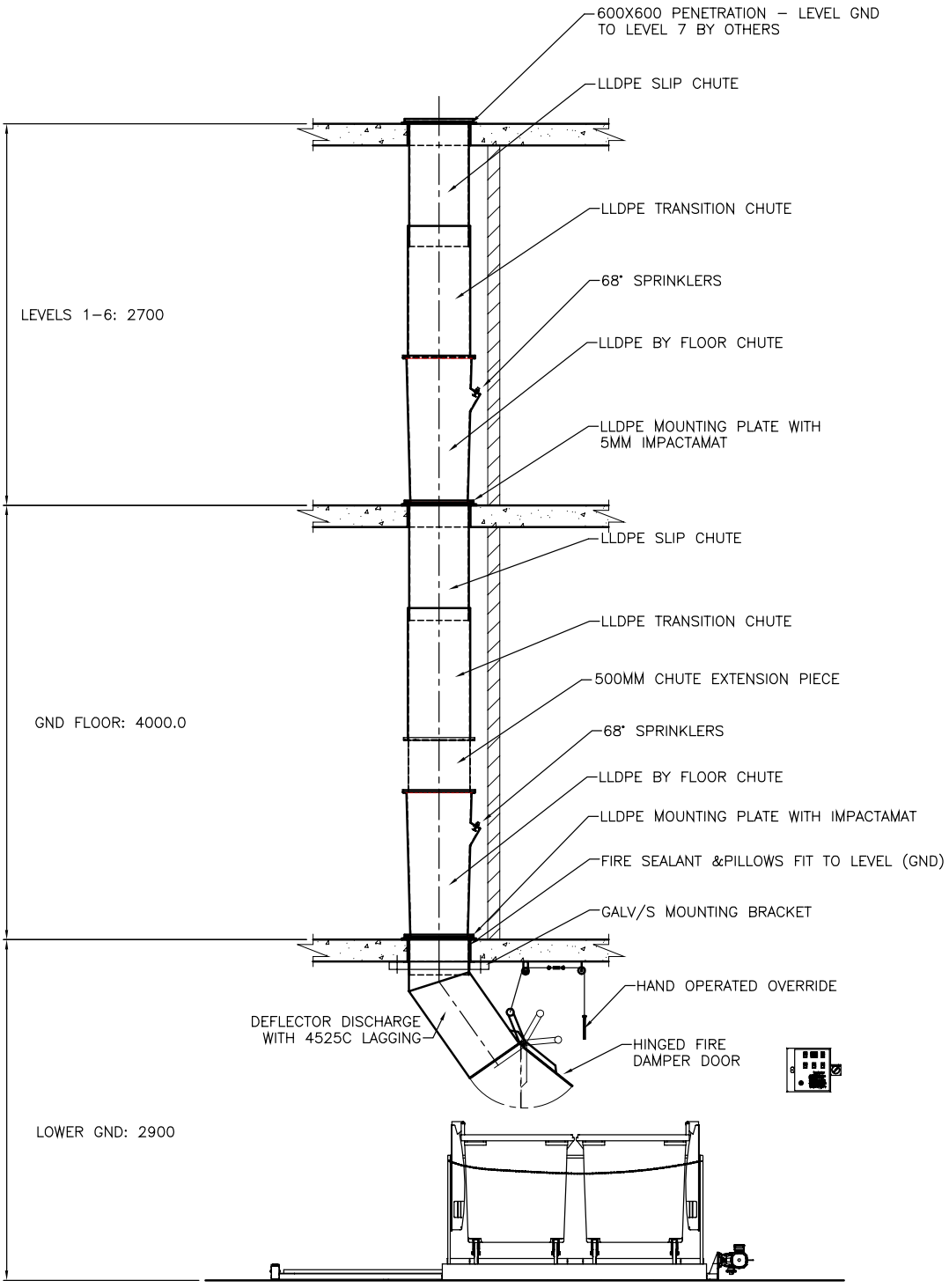
FINISH: NATURAL
.

All Welds to A.S. 1554

DRAWN: A.H.
CHECKED: S.F.
DATE: 17-08-2011
MASS: 268662.23

TITLE:
REFUSE ROOM GA
FIFTYALBERT ROAD
HICKORY - 242300001

SCALE: 1:50
File: PCT-01-10618
REV.
SHEET. 1 OF 1
A3



No:	DATE	REVISION	INT.

WASTECH ENGINEERING

SPECIALISING IN: DESIGN, MANUFACTURE AND SERVICE OF WASTE DISPOSAL AND RECYCLING EQUIPMENT

33 WEDGEWOOD ROAD, HALLAM, VIC. 3803 PHONE (03) 87871600 FAX (03) 87871650; (03) 87871670

MATERIAL ---

QTY: ---

ALL DIMENSIONS IN MILLIMETRES U.O.N.
DEBURR ALL EDGES

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DRN A.H.
CKD S.F.
APP ---
DATE 17–08–2011

TITLE CHUTE GA LEVELS LOWER G–6
FIFTY ALBERT RD–HICKORY #242300001

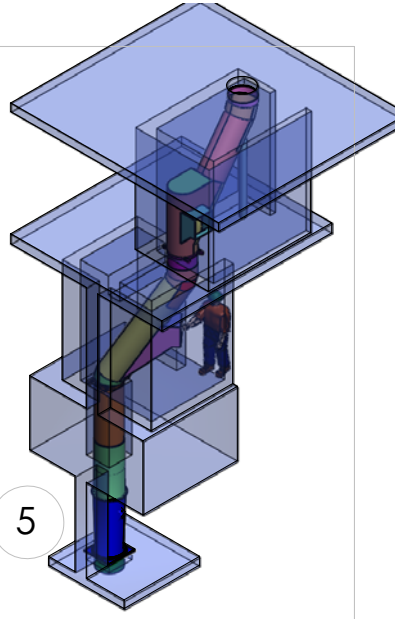
SCALE D.N.S
VIEWS ---

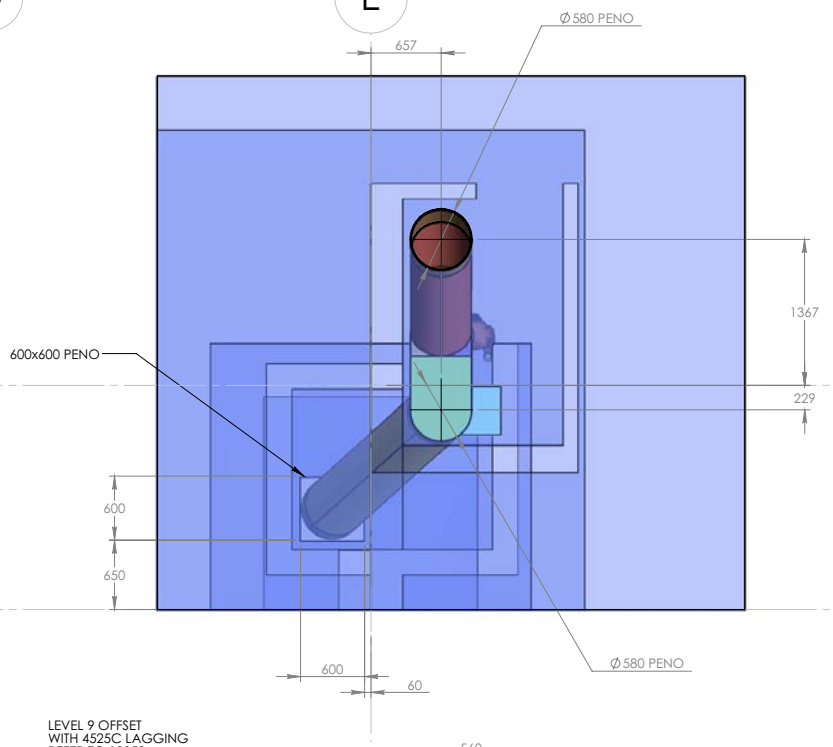
CAD FILE NAME PCT–01–10617–3

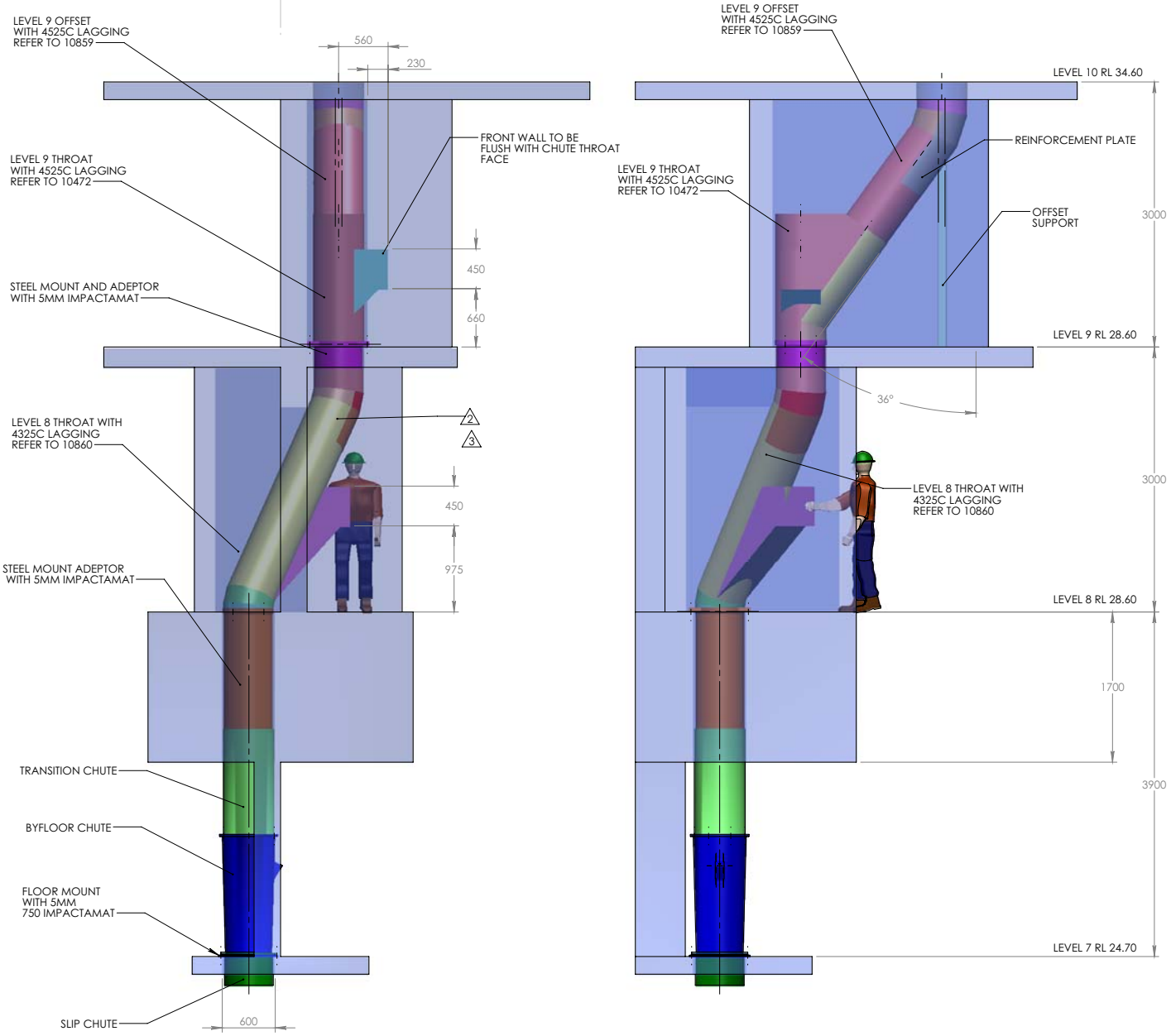
REV. 0

REV.	DESCRIPTION	DATE	BY
1	ADD DETAILS TO EACH SECTION	24/04/2012	A.H.
2	NEW DESIGN	03/06/2012	A.H.
3	CHANGE LEVEL 8 DESING	23/08/2012	A.H.

D E







TOLERANCES UNLESS OTHERWISE SPECIFIED:
UP TO 10 ± 0.25
OVER 10 UP TO 100 ± 0.5
OVER 100 ± 1
ALL ANGLES ± 1°

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WASTECH ENGINEERING
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Hallam, Victoria, Aust, 3803
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Fax: +61 3 8787 1670

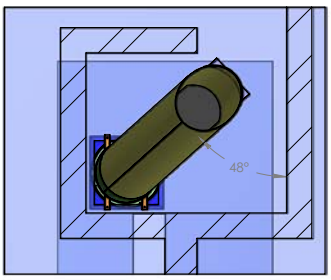
DRAFTING STANDARD AS1100 - 1992

MATERIAL: A.S.
A.S.
FINISH: NATURAL
.

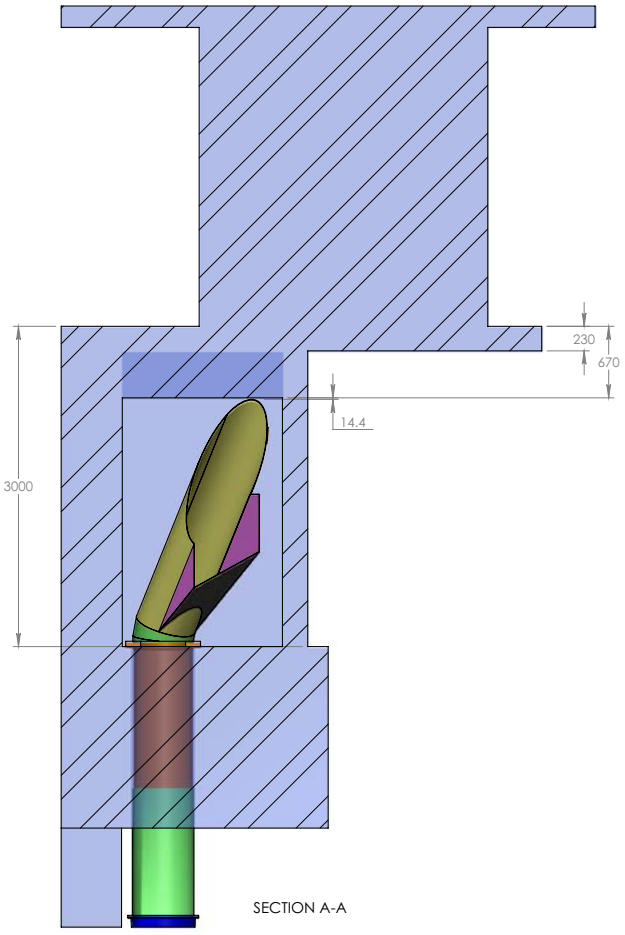
DRAWN: A.H.
CHECKED: S.F.
DATE: 16-08-2011
MASS: 255842.11

TITLE:
LEVEL 7-9 CHUTE ASSY
50 ALBERT HICKORY
DEVELOPMENT #242300001

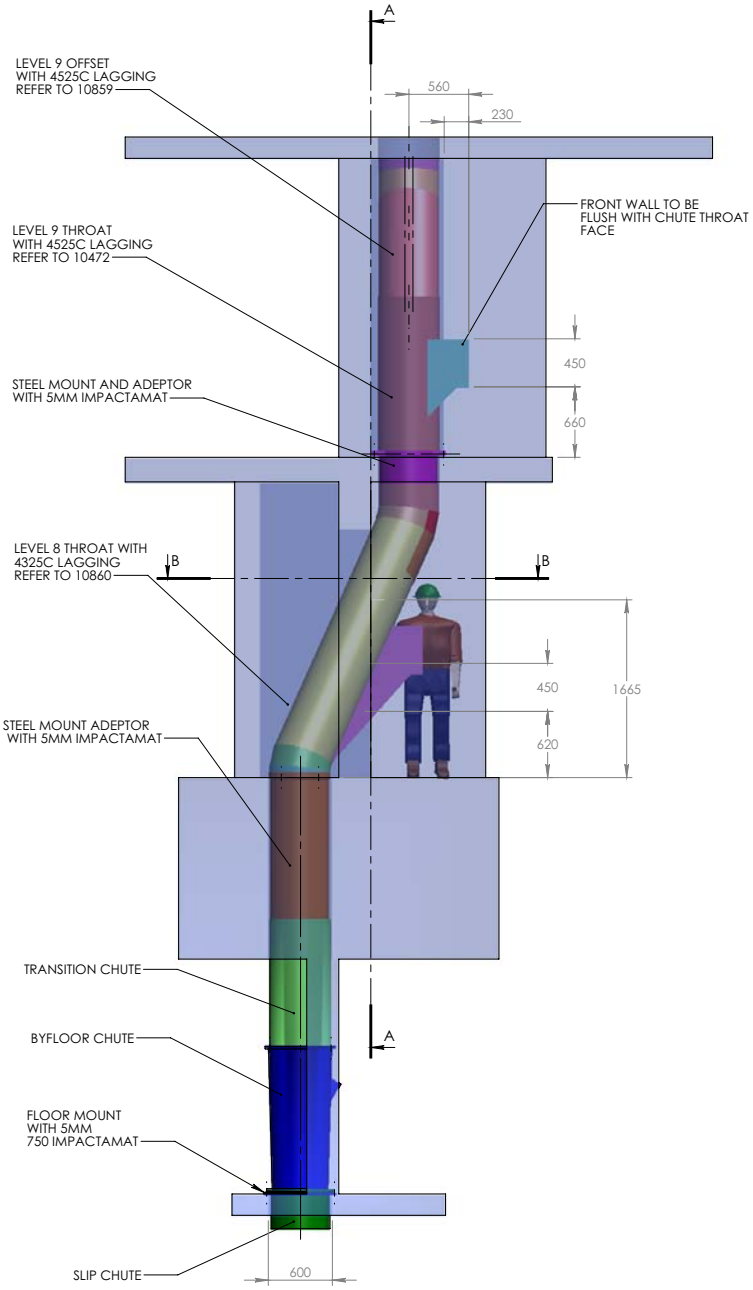
SCALE: 1:50 | File: PCT-01-10616 | REV. 3 | SHEET. 1 OF 2 | A3



SECTION B-B



SECTION A-A



TOLERANCES UNLESS OTHERWISE SPECIFIED:
UP TO 10 ± 0.25
OVER 10 UP TO 100 ± 0.5
OVER 100 ± 1
ALL ANGLES ± 1°

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WASTECH ENGINEERING
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Fax: +61 3 8787 1670

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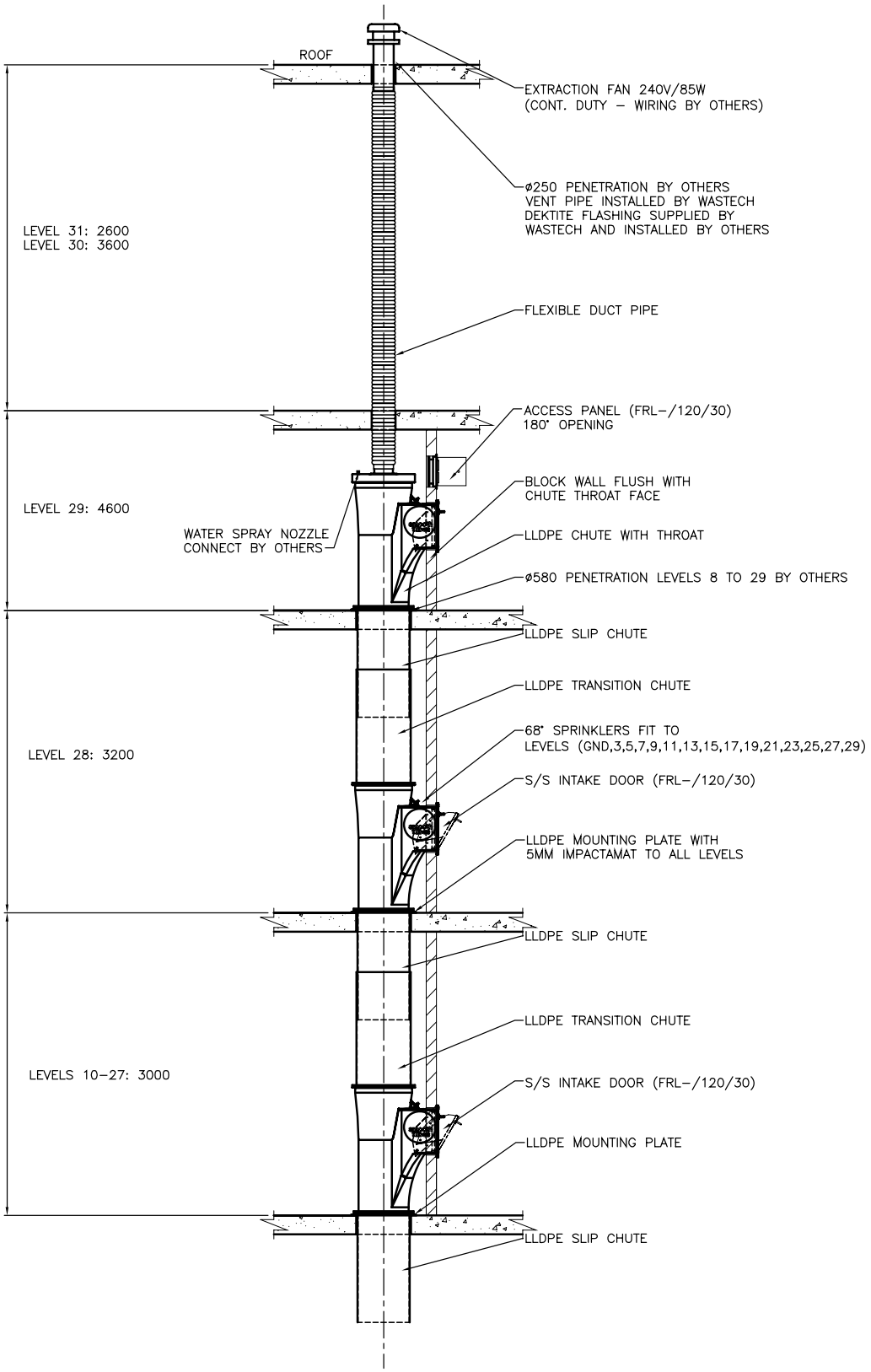
MATERIAL: A.S.
A.S.

FINISH: NATURAL
.

DRAWN: A.H.
CHECKED: S.F.
DATE: 16-08-2011
MASS: 255842.11

TITLE:
LEVEL 7-9 CHUTE ASSY
50 ALBERT HICKORY
DEVELOPMENT #242300001

SCALE: 1:50
File: **PCT-01-10616**
REV. 3
SHEET. 2 OF 2
A3



No:	DATE	REVISION	INT.

WASTECH ENGINEERING
SPECIALISING IN: DESIGN, MANUFACTURE AND SERVICE OF WASTE DISPOSAL AND RECYCLING EQUIPMENT
33 WEDGEWOOD ROAD, HALLAM, VIC. 3803 PHONE (03) 87871600 FAX (03) 87871650; (03) 87871670

MATERIAL ---

QTY: ---

ALL DIMENSIONS IN MILLIMETRES U.O.N.
DEBURR ALL EDGES

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DRN A.H.
CKD S.F.
APP ---
DATE 17–08–2011

TITLE CHUTE GA LEVELS 10–ROOF
FIFTY ALBERT RD–HICKORY #242300001

SCALE D.N.S
VIEWS ---

CAD FILE NAME PCT–01–10617–1

REV. 0

4 Certificates

Exova Warringtonfire Aus Pty Ltd
Suite 2002a, Level 20
44 Market Street
Sydney, New South Wales 2000
Australia

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Suite 2002a, Level 20
44 Market Street
Sydney, New South Wales 2000
Australia

T: +61 (0)2 8270 7600
F: +61 (0)2 9299 6076
W: www.exova.com

Testing. Advising. Assuring.

EWFA CERTIFICATE OF ASSESSMENT	CERTIFICATE No : SFC 27033-00	Page 1 of 1

Report Sponsor	Certificate Issue Date	Product Name
Wastech Building Services Pty Ltd 33 Wedgewood Road, Hallam, VIC- 3803	21/03/2012	**Wastech Garbage Chute door**

Assessment Report Reference	Referenced Standard	Report Issue Date	Report Validity Date
EWFA 27033-00	AS 1530.4- 2005	20/03/2012	31/03/2017

Introduction

The element of construction described below was assessed by this laboratory on behalf of the report sponsor in accordance with the stated test standard and achieved the results stated below. Refer to the referenced test report for a complete description of the assessed construction.

Assessed Wastech Garbage Chute door description and performance

Product Description	FRL
The specimen comprised a self-closing, single leaf chute door, hinged along the lower edge and locked with Novas Key and Lever KL100/200 Series lockset. Door opening 446mm wide × 446mm high. The doorset and doorframe assembly were fixed into a 100mm thick Hebel® PowerPanel wall. Refer the referenced report for a complete description of the assessed construction.	**-/120/30**

Conditions/Validity

- THIS CERTIFICATE IS PROVIDED FOR GENERAL INFORMATION ONLY AND DOES NOT COMPLY WITH THE REGULATORY REQUIREMENTS FOR EVIDENCE OF COMPLIANCE.
- Reference should be made to the relevant test report or regulatory information report to determine the applicability of the test result to a proposed installation. Full details of the constructions and justification for the conclusions given, along with the validity statements, are given in the assessment reports.
- The assessment report or short form assessment report does not provide an endorsement by Exova Warringtonfire Aus Pty Ltd of the performance of the actual products supplied. It is intended to provide a brief outline of the above referenced assessment reports and not to replace them.
- The conclusions in this certificate of assessment relate to the configurations as detailed, and should not be applied to any other configuration. The conclusions expressed in this document assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all conditions.
- Full copies of the assessment and relevant test reports may be obtained from the sponsor.

TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd	
Address	Suite 2002a, Level 20, 44 Market Street, Sydney NSW 2000, Australia	
Phone / Fax	+61 (0)2 8270 7600 / +61 (0)2 9299 6076	
ABN	81 050 241 524	
Email / Home Page	www.exova.com	
Authorisation	Prepared By:	Reviewed By:
	M. Kamal	K. G. Nicholls

SMOOTHTUBES® CHUTE WARRANTY POLICY

5 Warranty Policy

WASTECH SERVICES PTY. LTD. (Wastech) warrants that the Smoothtubes® Plastic Chute will be free of defects arising from poor workmanship or faulty materials for a period of ten (10) Years from the date of installation, provided that the Smoothtubes® chute system is used for the purpose that it was designed and maintained according to the schedule provided by Wastech.

Smoothtubes® Chute Sections

The 10 year Warranty covers the following;

- Structural Integrity
- Corrosion Resistance
- Workmanship
- Installation
- Loading doors, Vent, Deflector, Compactor and all other ancillary components

Exclusions;

- Fair wear and tear
- Impact damage by solid items over 2.5kg in weight
- Damage caused by misuse or the disposal of items other than domestic household products
- Fire Sprinkler and connection
- Damage resulting from continued use after a fault has been reported
- Components modified by persons other than Wastech personnel

NOTE: Loading Doors, Vent, Deflector, Compactors and all other ancillary components are covered by our standard 12 month warranty.

Warranty liability is limited to the rectification of a fault only.
Except to the extent required by law, Wastech excludes its liability (including liability in negligence) to any person for any loss or damage, consequential or otherwise howsoever suffered or incurred by any such person caused by or resulting directly or indirectly from the product or from any failure, breakdown, defect or deficiency of whatsoever nature and kind in the equipment.
Please refer to our standard trading terms and conditions for full warranty details which is available on our website www.wastech.com.au

Customer: Hickory **Site: 42-50 Albert Street**

Installation Date: TBA

Date Practical Completion Achieved By Builder: TBA

Equipment Description: Smoothtubes Waste Chute to 31 Levels

Signature: Neil Bone

6 Wastech Contact Numbers

Wastech has a 24 hour, 7 day a week service and breakdown department. Please call the below number for prompt attention.

For emergency breakdowns or routine servicing

Service department

Phone # 1300 665 870

Fax # (03) 8787 1670

Email : service@wastech.com.au

Main office

Phone # (03) 8787 1600

Fax # (03) 8787 1650

Email: info@wastech.com.au